

ABSTRACT

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A high-speed automatic parts mounting apparatus is provided which is designed to move pick-up nozzles vertically to mount electronic parts on a printed circuit board in sequence. The parts mounting apparatus reads data on height of each of the electronic parts out of a memory to determine a target level of the printed circuit when the electronic parts are mounted on the printed circuit board and moves an X-Y table on which the printed circuit board is held vertically to the target level. Specifically, the level of the printed circuit board is adjusted based on the height of the electronic parts without changing a vertical stroke of the vacuum nozzles. This minimizes the vibration of the vacuum nozzles, thus avoiding a shift in orientation or mounted position of the electronic parts.